

Amendments to the Claims

This Listing of Claims will replace all prior versions and Listings of Claims in the application:

Listing of Claims

1. (Currently amended) An image sensing apparatus comprising:
 - an image sensing element includes a first light receiving area and a second light receiving area which are formed on an image pickup surface of a semiconductor substrate by a plurality of divisional joint exposure operations, wherein ~~a plurality of color filters of a Bayer arrangement are arrayed on the first and second light receiving areas and~~ pixel signals obtained by the first light receiving area and the second light receiving area are read out from the image sensing element via a same channel;
 - a correction device which corrects difference between output levels of pixel signals output from the first light receiving area and the second light receiving area via the same channel, wherein said correction device simultaneously corrects, by a gain correction, a difference between levels of output signals from the first light receiving area and the second light receiving area, and a difference between levels of output signals of output channels included in the same channel; and
 - a control device which controls to write a signal corrected by said correction device to a frame memory.

2. (Previously presented) The apparatus according to claim 1, wherein said correction device divides the light receiving areas into a plurality of blocks, and performs correction using a different correction value for each block.
3. (Previously presented) The apparatus according to claim 1, wherein the light receiving areas include at least three partial image sensing regions in one direction, and said correction device corrects at least two of the three partial image sensing regions with correction values by using as a reference a central partial image sensing region selected from the three partial image sensing regions.
4. (Previously presented) The apparatus according to claim 1, wherein said correction device performs correction using different correction values in a boundary direction between the light receiving areas.
5. (Original) The apparatus according to claim 1, wherein said correction device performs correction using a different correction value for each color.
6. (Currently amended) An image sensing apparatus comprising:
an image sensing element includes a first light receiving area and a second light receiving area on which color filters of a plurality of colors for sensing an object image are formed, wherein the first and second light receiving areas form a single image sensing surface of the image sensing element by connecting the first and second light receiving areas with each other after divisional joint exposure

operations are performed in a manufacturing process of the image sensing element and pixel signals obtained by the first light receiving area and the second light receiving area are read out from the image sensing element via a same channel;

a correction device which corrects difference between output levels of pixel signals output from the first light receiving area and the second light receiving area via the same channel, wherein said correction device simultaneously corrects, by a gain correction, a difference between levels of output signals from the first light receiving area and the second light receiving area, and a difference between levels of output signals of output channels included in the same channel; and

a control device which controls to write a signal corrected by said correction device to a frame memory.

7. (Previously presented) The apparatus according to claim 6, wherein said image sensing element outputs a signal from a different output unit for each light receiving area, and said correction device performs correction using a different correction value for each output unit.
8. (Original) The apparatus according to claim 6, wherein correction is performed using a different correction value for each lens.
9. (Original) The apparatus according to claim 6, wherein correction is performed using a different correction value for each exit pupil position of an optical system.

10. (Original) The apparatus according to claim 6, wherein correction is performed using a different correction value for each F-number.